



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/510,021

DATE: 10/08/2004

TIME: 14:05:10

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\10082004\J510021.raw

3 <110> APPLICANT: Cole, Stewart  
 4 Pym, Alexander S  
 5 Brosch, Roland  
 6 Brodin, Priscille  
 7 Majlessi, Laleh  
 8 Demangel, Caroline  
 9 Leclerc, Claude  
 11 <120> TITLE OF INVENTION: Identification of virulence associated regions RD1 and  
 12 RD5 leading to improve vaccine of M. bovis BCG and M.  
 13 microti  
 15 <130> FILE REFERENCE: D20217  
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/510,021  
 C--> 17 <141> CURRENT FILING DATE: 2004-10-01  
 17 <150> PRIOR APPLICATION NUMBER: PCT/IB03/01789  
 18 <151> PRIOR FILING DATE: 2003-04-01  
 20 <150> PRIOR APPLICATION NUMBER: EP 02/290864  
 21 <151> PRIOR FILING DATE: 2002-04-05  
 23 <160> NUMBER OF SEQ ID NOS: 75  
 25 <170> SOFTWARE: PatentIn Ver. 2.1

**Does Not Comply  
 Corrected Diskette Needed**

## ERRORED SEQUENCES

3898 <210> SEQ ID NO: 75  
 3899 <211> LENGTH: 537  
 3900 <212> TYPE: PRT  
 3901 <213> ORGANISM: Mycobacterium tuberculosis  
 3903 <220> FEATURE:  
 3904 <223> OTHER INFORMATION: Rv3885c - possible conserved membrane protein  
 3906 <400> SEQUENCE: 75  
 3907 Leu Thr Ser Lys Leu Thr Gly Phe Ser Pro Arg Ser Ala Arg Arg Val  
 3908 1 5 10 15  
 3910 Ala Gly Val Trp Thr Val Phe Val Leu Ala Ser Ala Gly Trp Ala Leu  
 3911 20 25 30  
 3913 Gly Gly Gln Leu Gly Ala Val Met Ala Val Val Val Gly Val Ala Leu  
 3914 35 40 45  
 3916 Val Phe Val Gln Trp Trp Gly Gln Pro Ala Trp Ser Trp Ala Val Leu  
 3917 50 55 60  
 3919 Gly Leu Arg Gly Arg Arg Pro Val Lys Trp Asn Asp Pro Ile Thr Leu  
 3920 65 70 75 80  
 3922 Ala Asn Asn Arg Ser Gly Gly Gly Val Arg Val Gln Asp Gly Val Ala  
 3923 85 90 95  
 3925 Val Val Ala Val Gln Leu Leu Gly Arg Ala His Arg Ala Thr Thr Val

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```

3926          100          105          110
3928 Thr Gly Ser Val Thr Val Glu Ser Asp Asn Val Ile Asp Val Val Glu
3929          115          120          125
3931 Leu Ala Pro Leu Leu Arg His Pro Leu Asp Leu Glu Leu Asp Ser Ile
3932          130          135          140
3934 Ser Val Val Thr Phe Gly Ser Arg Thr Gly Thr Val Gly Asp Tyr Pro
3935 145          150          155          160
3937 Arg Val Tyr Asp Ala Glu Ile Gly Thr Pro Pro Tyr Ala Gly Arg Arg
3938          165          170          175
3940 Glu Thr Trp Leu Ile Met Arg Leu Pro Val Ile Gly Asn Thr Gln Ala
3941          180          185          190
3943 Leu Arg Trp Arg Thr Ser Val Gly Ala Ala Ala Ile Ser Val Ala Gln
3944          195          200          205
3946 Arg Val Ala Ser Ser Leu Arg Cys Gln Gly Leu Arg Ala Lys Leu Ala
3947          210          215          220
3949 Thr Ala Thr Asp Leu Ala Glu Leu Asp Arg Arg Leu Gly Ser Asp Ala
3950 225          230          235          240
3952 Val Ala Gly Ser Ala Gln Arg Trp Lys Ala Ile Arg Gly Glu Ala Gly
3953          245          250          255
3955 Trp Met Thr Thr Tyr Ala Tyr Pro Ala Glu Ala Ile Ser Ser Arg Val
3956          260          265          270
3958 Leu Ser Gln Ala Trp Thr Leu Arg Ala Asp Glu Val Ile Gln Asn Val
3959          275          280          285
3961 Thr Val Tyr Pro Asp Ala Thr Cys Thr Ala Thr Ile Thr Val Arg Thr
3962          290          295          300
3964 Pro Thr Pro Ala Pro Thr Pro Pro Ser Val Ile Leu Arg Arg Leu Asn
3965 305          310          315          320
3967 Gly Glu Gln Ala Ala Ala Ala Ala Asn Met Cys Gly Pro Arg Pro
3968          325          330          335
3970 His Leu Arg Gly Gln Arg Arg Cys Pro Leu Pro Ala Gln Leu Val Thr
3971          340          345          350
3973 Glu Ile Gly Pro Ser Gly Val Leu Ile Gly Lys Leu Ser Asn Gly Asp
3974          355          360          365
3976 Arg Leu Met Ile Pro Val Thr Asp Ala Gly Glu Leu Ser Arg Val Phe
3977          370          375          380
3979 Val Ala Ala Asp Asp Thr Ile Ala Lys Arg Ile Val Ile Arg Val Val
3980 385          390          395          400
3982 Gly Ala Gly Glu Arg Val Cys Val His Thr Arg Asp Gln Glu Arg Trp
3983          405          410          415
3985 Ala Ser Val Arg Met Pro Gln Leu Ser Ile Val Gly Thr Pro Arg Pro
3986          420          425          430
3988 Ala Pro Arg Thr Thr Val Gly Val Val Glu Tyr Val Arg Arg Arg Lys
3989          435          440          445
3991 Asn Gly Asp Asp Gly Lys Ser Glu Gly Ser Gly Val Asp Val Ala Ile
3992          450          455          460
3994 Ser Pro Thr Pro Arg Pro Ala Ser Val Ile Thr Ile Ala Arg Pro Gly
3995 465          470          475          480
3997 Thr Ser Leu Ser Glu Ser Asp Arg His Gly Phe Glu Val Thr Ile Glu
3998          485          490          495

```

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```
4000 Gln Ile Asp Arg Ala Thr Val Lys Val Gly Ala Ala Gly Gln Asn Trp
4001                500                505                510
4003 Leu Val Glu Met Glu Met Phe Arg Ala Glu Asn Arg Tyr Val Ser Leu
4004                515                520                525
4006 Glu Pro Val Thr Met Ser Ile Gly Arg
4007                530                535
E--> 4013 6
E--> 4015 1
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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/510,021

DATE: 10/08/2004

TIME: 14:05:11

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\10082004\J510021.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application No  
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:1953 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4013 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:75  
M:332 Repeated in SeqNo=75